

To: U.S. Department of Commerce
(PW FORM PAT-1449)
Patent and Trademark Office



**INFORMATION DISCLOSURE STATEMENT
BY APPLICANT**

Dkt. No.

056297-0001

1079.1E

Applicant: SAPOLSKY ET AL

Appln. No.: 10/696,452

Filing Date: October 29, 2002

Date: November 20, 2003

Page

1

of

6

Examiner: Unassigned

Group Art Unit: Unassigned

U.S. PATENT DOCUMENTS

Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
	AR 6,472,185	10/2002	McCasky Feazel et al.	435	91.2	
	BR 6,100,030	08/2000	McCasky Feazel et al.	435	6	
	CR 6,103,463	08/2000	Chetverin et al	435	6	
	DR 5,700,637	12/1997	Southern	435	6	
	ER 6,027,889	02/2000	Barany et al.	435	5	
	FR 5,869,252	02/1999	Bouma et al.	435	6	
	GR 5,436,142	07/1995	Wigler et al.	435	91.2	
	HR 5,849,483	12/1998	Shuber	435	5	
	IR 5,589,330	12/1996	Shuber	435	5	
	JR 5,633,134	05/1997	Shuber	435	6	
	KR 5,508,178	04/1996	Rose et al.	435	91.1	
	LR 6,124,090	09/2000	Rose et al.	435	5	
	MR 6,107,023	08/2000	Reyes et al.	435	6	

FOREIGN PATENT DOCUMENTS

	Document Number	Date MM/YYYY	Country	Inventor Name		English Abstract		Translation Readily Available	
						Enclosed	No	Enclose	No
	NR WO 89/12695	12/1989	PCT	Reyes et al.	C12Q	X			
	OR WO 89/10414	11/1989	PCT	Wallace et al.	C12Q	X			
	PR WO 93/06239	04/1993	PCT	Zabeau et al.	C12Q	X			
	QR WO 96/03529	02/1996	PCT	Shuber	C12Q	X			
	RR WO 90/08821	08/1990	PCT	Johnson	C12N	X			
	SR 0 379 369	07/1990	Europe	Rose et al	C12Q	X			
	TR 0 327 429 B1	08/1989	Europe	Keith et al	C12Q	X			

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

	UR	Kim et al, Journal of Cellular Biochemistry, Supplement 13E, Abstract W7160 (1989)	X			
	VR	Hacia et al., Nature Genetics, 14:441-447 (December, 1996)	X			
	WR	Cronin et al., Human Mutation, 7:244-255 (1996)	X			
	XR	Kozal et al., Nature Medicine, 2(7):753-59 (July, 1996)	X			
	YR	Vos et al., Nucleic Acids Research, 23(21):4407-4414 (1995)	X			

Examiner

J. KETTER

Date Considered:

2/6/86

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



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Examiner: Unassigned Group Art Unit: Unassigned

U.S. PATENT DOCUMENTS

Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
<i>[initials]</i>	AR 5,565,340	10/1996	Chenchik et al.	435	91.2	
<i>[initials]</i>	BR 5,093,245	03/1992	Keith et al.	435	91	
<i>[initials]</i>	CR 5,595,891	01/1997	Rose et al.	435	91.5	
<i>[initials]</i>	DR 6,294,323	09/2001	Ullman et al.	435	6	
<i>[initials]</i>	ER 5,366,877	11/1994	Keith	435	91.2	
<i>[initials]</i>	FR 6,258,539	07/2001	Hunkapiller et al.	435	6	
<i>[initials]</i>	GR 5,853,991	12/1998	Wang et al.	435	6	
<i>[initials]</i>	HR 6,174,709	01/2001	Kenten et al.	435	91.2	
<i>[initials]</i>	IR 5,413,909	05/1995	Bassam et al.	435	6	
<i>[initials]</i>	JR 5,599,696	02/1997	Mueller et al.	435	91.2	
<i>[initials]</i>	KR 5,501,964	03/1996	Wigler et al.	435	91.2	
<i>[initials]</i>	LR 5,512,458	04/1996	Leonard	435	91.1	
<i>[initials]</i>	MR 6,045,994	04/2000	Zabeau et al.	435	6	
<i>[initials]</i>	NR 6,277,606	08/2001	Wigler et al.	435	91.2	

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						Enclosed	No	Enclose	No
<i>[initials]</i>	OR WO 94/11383	05/1994	PCT	Wigler et al.	C07H	X			
<i>[initials]</i>	PR WO 93/12245	06/1993	PCT	Kenten et al.	C12P	X			
<i>[initials]</i>	QR WO 90/10064	09/1990	PCT	Miller	C12N	X			
<i>[initials]</i>	RR WO 91/05861	05/1991	PCT	Lovett et al.	C12N	X			
<i>[initials]</i>	SR WO 90/09457	08/1990	PCT	Pasek	C12Q	X			
	TR								
	UR								
	VR								

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<i>[initials]</i>	WR	Lew, Current Opinion in Immunology, 3:242-246 (1991)	X		
<i>[initials]</i>	XR	Roux et al., BioTechniques, 8(1):48-57 and Erratum, 8(3):265 (1990)	X		
<i>[initials]</i>	YR	Kawasaki et al., Methods in Enzymology, 218:369-81	X		
<i>[initials]</i>	ZR	Bugawan et al., The Journal of Immunology, 141(12):4024-4030 (December 1, 1988)	X		
<i>[initials]</i>	AAR	Bugawan et al., Am. J. Hum. Genet., 54:331-340 (1994)	X		

Examiner *[signature]* Date Considered: *2/6/06*

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Date: November 20, 2003 Page 3 of 6

U.S. PATENT DOCUMENTS

Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
<i>[Signature]</i>	AR 5,597,694	01/1997	Munroe et al.	435	6	
	BR 5,470,724	11/1995	Ahern	435	91.2	
	CR 6,017,701	01/2000	Sorge et al.	435	6	
	DR 5,104,792	04/1992	Silver et al.	435	6	
	ER 6,218,119	04/2001	Kuiper et al.	435	6	
	FR 5,874,215	02/1999	Kuiper et al.	435	6	
	GR 6,159,713	12/2000	Wigler et al.	435	91.2	
	HR 5,876,929	03/1999	Wigler et al.	435	6	
	IR 5,814,444	09/1998	Rabinovitch	435	6	
	JR 5,693,464	12/1997	Trent et al.	435	6	
	KR 6,258,533	07/2001	Jones	435	6	
	LR 6,060,245	05/2000	Sorge et al.	435	6	
<i>[Signature]</i>	MR 6,261,782	07/2001	Lizardi et al.	435	6	

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					Enclosed	No	Enclose	No
	NR							
	OR							
	PR							

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

<i>[Signature]</i>	QR	Krausa et al., Human Immunology, 44:35-42 (1995)	X			
	RR	Gonzalez-Escribano et al., Annals of the Rheumatic Diseases, 54:386-388 (1995)	X			
	SR	Hashimoto et al., Tissue Antigens, 44:166-173 (1994)	X			
	TR	Ratanachaiyavong et al., European Journal of Clinical Investigation, 24:309-315 (1994)	X			
	UR	Caetano-Anolles et al., Mol. Gen. Genet., 235:157-165 (1992)	X			
	VR	Akowitz et al., Gene, 81:295-306 (1989)	X			

Examiner *J. KETTER* Date Considered: *2/6/06*

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Page

4

of

6

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<i>m</i>	AR 6,270,966	08/2001	Weinstein et al.	435	6	
	BR 5,789,206	08/1998	Tavtigian et al.	435	91.2	
	CR 5,994,068	11/1999	Guilfoyle et al.	435	6	
	DR 6,280,948	08/2001	Guilfoyle et al.	435	6	
	ER 5,707,807	01/1998	Kato	435	6	
	FR 5,824,481	10/1998	Kambara et al.	435	6	
	GR 5,814,445	09/1998	Belyavsky et al.	435	6	
	HR 6,120,996	09/2000	Belyavsky et al.	435	6	
	IR 5,712,126	01/1998	Weissman et al.	435	91.2	
	JR 6,010,850	01/2000	Weissman et al.	435	6	
	KR 6,287,825	09/2001	Weissman et al.	435	91.2	
	LR 5,252,724	10/1993	Kishimoto et al.	435	91.52	
	MR 5,858,656	01/1999	Deugan et al.	435	6	

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	NR							
	OR							
	PR							

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

<i>u</i>	QR	Saunders et al., Nucleic Acids Research, 17(22):9027-9037 (1989)	X		
	RR	Lüdecke et al., Hum. Genet., 84:512-516 (1990)	X		
	SR	Chang et al., Genomics, 12:307-312 (1992)	X		
	TR	Launer et al., M.M. Shemyakin and Yu A. Ovchinnikov Institute of Bioorganic Chemistry, Russian Academy of Sciences, Moscow (Nov.-Dec., 1994)	X		
	UR	Ren et al., BioTechniques, 22:36-40 (January, 1997)	X		
	VR	Loukianov et al., BioTechniques, 15(6):980-982 (1993)	X		
	WR	Qureshi et al, GATA, 11(4):95-101 (1994)	X		
	XR	Kalman et al., Biochemical and Biophysical Research Communications, 167(2):504-506 (1990)	X		
	YR	Rosenthal et al., Nucleic Acids Research, 18(10):3095-3096 (1990)	X		
	ZR	Scully et al., Molecular and Cellular Probes, 4:485-495 (1990)	X		

Examiner

V. KETTER

Date Considered:

2/6/06

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Page

5

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Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
I	AR 6,221,600	04/2001	MacLeod et al.	435	6	
I	BR 6,114,149	09/2000	Fry et al.	435	91.2	
I	CR 5,427,932	06/1995	Weier et al.	435	91.2	
I	DR 6,322,971	11/2001	Chetverin et al	435	6	
	ER					

FOREIGN PATENT DOCUMENTS

		Document Number	Date MM/YYYY	Country	Inventor Name		Abstract		Readily Available	
							Enclosed	No	Enclose	No
	FR									
	GR									
	HR									

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

I	IR	Patel et al., Nucleic Acids Research, 19(16):4371-4375 (1991)	X			
	JR	Jones et al., BioTechniques, 23:132-138 (July, 1997)	X			
	KR	Shagin et al., Nucleic Acids Research, 27(18):e23 (1999)	X			
	LR	Carbonari et al., Trends in Genetics, "Optimization of PCR performance", 9(2):42-43 (February, 1993)	X			
	MR	Erich et al., Annu. Rev. Genet., 26:479-506 (1992)	X			
	NR	Luo et al., Journal of Clinical Laboratory Analysis, 13:69-74 (1999)	X			
	OR	Nadeau et al., Mammalian Genome, 3:55-64 (1992)	X			
	PR	Agostini et al., Journal of NeuroVirology, 1:316-320 (1995)	X			
	QR	Bell, Immunology Today, 10(10):351-355 (1989)	X			
	RR	Bej et al., Critical Reviews in Biochemistry and Molecular Biology, 26(3/4):301-334 (1991)	X			
	SR	Given et al., Journal of Virology, 30(3):852-862 (June, 1979)	X			
	TR	Roux, PCR Methods and Applications, 4(5):S185-S194 (April, 1995)	X			
	UR	Ohler et al., PCR Methods and Applications, 2(1):51-59 (April, 1992)	X			
	VR	Williams, BioTechniques, 7(7):762-769 (July/August, 1989)	X			
	WR	Xu et al., Comp. Immun. Microbiol. Infect. Dis., 14(3):209-221 (1991)	X			
	XR	Lagerström et al., PCR Methods and Applications, 1:111-119 (1991)	X			
I	YR	Reyes et al., Molecular and Cellular Probes, 5:473-481 (1991)	X			

Examiner

J. KOTTER

Date Considered:

2/6/06

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Examiner: Unassigned	Group Art Unit: Unassigned

Date: November 20, 2003 Page 6 of 6

U.S. PATENT DOCUMENTS

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	AR					
	BR					
	CR					

FOREIGN PATENT DOCUMENTS

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					Enclosed	No	Enclose	No
	DR							
	ER							
	FR							

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

GR	Gibbs, Anal. Chem., 62:1202-1214 (1990)	X		
HR	Lüdecke et al., Nature, 338:348-350 (March 23, 1989)	X		
IR	Siebert et al., Nucleic Acids Research, 23(6):1087-1088 (1995)	X		
JR	Mullis, PCR Methods and Applications, 1(1):1-4 (August, 1991)	X		
KR	Jones et al., BioTechniques, 15(5):894-902 (1993)	X		
LR	Kandpal et al., Proc. Natl. Acad. Sci. USA, 91:88-92 (January, 1994)	X		
MR	Kainz et al, Analytical Biochemistry 202:46-49 (1992)	X		
NR				
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VR				

Examiner <i>J. KETTER</i>	Date Considered: <i>2/6/04</i>
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PTO/58/08a (08-03)

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 1 of 1

Complete If Known

Application Number	10/696,452
Filing Date	October 29, 2003
First Named Inventor	Ronald Sapolsky
Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	1078.1E

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ¹ (if known)			
	1	US-5,710,000	01-20-1998	Sapolsky et al.	
	2	US-5,700,837	12-23-1997	Southern	
	3	US-5,695,940	12-09-1997	Dmanac et al.	
	4	US-5,687,972	09-16-1997	Dmanac et al.	
	5	US-5,525,464	08-11-1993	Dmanac et al.	
	6	US-5,508,169	04-16-1998	Deugau et al.	
	7	US-5,482,806	02-20-1996	Dmanac et al.	
	8	US-5,202,231	04-13-1993	Dmanac et al.	
	9	US-5,002,867	03-26-1991	Macevitz	
	10	US-5,143,854	09-01-1992	Pirung et al.	
	11	US-5,868,740	10-18-1999	Fodor et al.	
	12	US-5,837,832	11-17-1998	Chee et al.	
	13	US-5,861,242	01-19-1999	Chee et al.	
		US-			
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FOREIGN PATENT DOCUMENTS

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		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
	14	CA 2,036,946	10-07-1991			
	15	WO 90/15070	12-13-1990			
	16	WO 92/10092	06-25-1992			

Examiner Signature	<i>J. KETTER</i>	Date Considered	2/6/06
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/596,452
		Filing Date	October 29, 2003
		First Named Inventor	Ronald Sapolsky
		Art Unit	Unknown
		Examiner Name	Unknown
Sheet 1 of 2	Attorney Docket Number	1078.1E	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issuu number(s), publisher, city and/or country where published.	T ²
	17	Brenner, et al., "DNA Fingerprinting by Sampled Sequencing," PNAS, 86:8902-8906 (1989).	
	18	Ceasa, et al., "A vector for facile PCR product cloning and modification generating any desired 4-base 5' overhang: pRPM," BioTechniques, 14:250-252, 254, 255 (1993).	
	19	Dmanac, "Genome Sequencing Machine," pg. 60 (publication journal and date unknown).	
	20	Honeisel, "Application of Hybridization Techniques to Genome Mapping and Sequencing," Trends in Genetics, 10(3):79-83 (1994).	
	21	Sapolsky, et al., "Mapping Genomic Library Clones using Oligonucleotide Arrays," Hilton Head Conference, South Carolina, September 17-21, 1994.	
	22	Smith, "Ligation-Mediated PCR of Restriction Fragments from Large DNA Molecules," PCR Methods and Applications, 2:21-27 (Cold Spring Harbor Laboratory Press, 1992).	
	23	Szybalski, "Universal Restriction Endonucleases: Designing Novel Cleavage Specificities by Combining Adaptor Oligodeoxynucleotide and Enzyme Moieties," Gene, 40:169-173 (1983).	
	24	Szybalski, et al., "Class-II's Restriction Enzymes: A Review", Gene, 100:13-26 (1991).	
	25	Unrau, et al., "Non-Cloning Amplification of Specific DNA from Whole Genomic DNA Digests using DNA Indexers," Gene, 145:163-169 (1994).	

Examiner Signature		Date Considered	2/6/06
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¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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